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(FILE 'HOME' ENTERED AT 14:51:05 ON 17 AUG 2009)

FILE 'REGISTRY' ENTERED AT 14:51:18 ON 17 AUG 2009

L1 STRUCTURE UPLOADED

L2 0 S L1

L3 1 S L1 FULL

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L1 STR

P—F

Hy.....[CH.....CH]<sub>1-10</sub>CH..... Cy

Structure attributes must be viewed using STN Express query preparation.

L3 1 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 29254 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

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L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN

RN 615557-62-5 REGISTRY

ED Entered STN: 12 Nov 2003

CN 3H-Indolium, 2-[3-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-1-propen-1-yl]-1-(20-fluoro-20-oxido-5,10-dioxo-21-oxa-6,9-diaza-20-phosphatricos-1-yl)-3,3-dimethyl- (CA INDEX NAME)

OTHER CA INDEX NAMES:

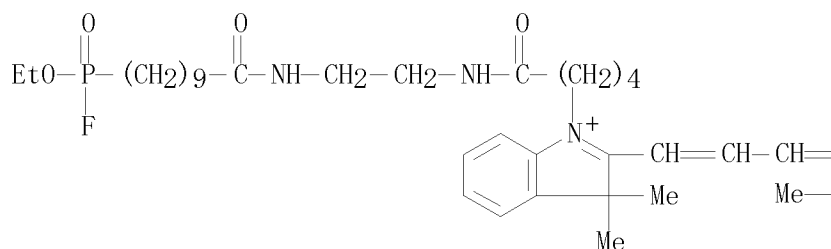
CN 3H-Indolium, 2-[3-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-1-propenyl]-1-(20-fluoro-20-oxido-5,10-dioxo-21-oxa-6,9-diaza-20-phosphatricos-1-yl)-3,3-dimethyl- (9CI)

MF C43 H63 F N4 O4 P

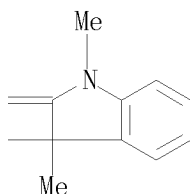
SR CA

LC STN Files: CA, CAPLUS

PAGE 1-A



PAGE 1-B



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:334625

=> fil capl  
FILE 'CAPLUS' ENTERED AT 14:52:36 ON 17 AUG 2009  
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FILE COVERS 1907 - 17 Aug 2009 VOL 151 ISS 8  
FILE LAST UPDATED: 16 Aug 2009 (20090816/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2009.

CAS Information Use Policies apply and are available at:

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This file contains CAS Registry Numbers for easy and accurate substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/Caplus family of databases have been updated to include new citing references information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 9.

'FIONA' IS DEFAULT FORMAT FOR 'CAPLUS' FILE

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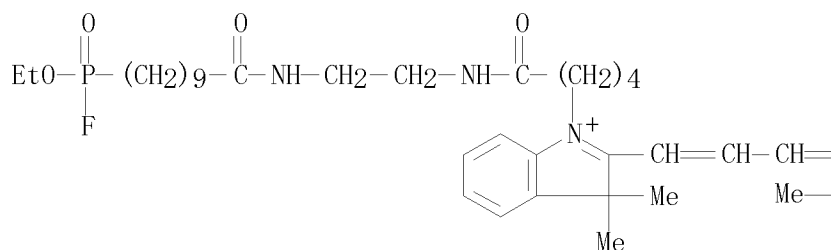
L4

1 L3

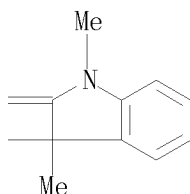
=&gt; d bib abs hitstr

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2003:314907 CAPLUS  
 DN 139:334625  
 TI Developing a strategy for activity-based detection of enzymes in a protein microarray  
 AU Chen, Grace Y. J.; Uttamchandani, Mahesh; Zhu, Qing; Wang, Gang; Yao, Shao Q.  
 CS Department of Chemistry, National University of Singapore, Singapore, 117543, Singapore  
 SO ChemBioChem (2003), 4(4), 336-339  
 CODEN: CBCHFX; ISSN: 1439-4227  
 PB Wiley-VCH Verlag GmbH & Co. KGaA  
 DT Journal  
 LA English  
 AB The microarray strategy that allows high throughput, activity-based detection of enzymes immobilized on a glass slide, and its potential application for rapid screenings of enzyme inhibitors are described. Three probes (PT-Cy3, VS-Cy3, FP-Cy3) were designed as broad-based probes for the simultaneous identification of class-specific unknown enzymes in a protein microarray. Three major classes of enzymes (phosphatases, cysteine proteases, and serine hydrolases), were chosen as the targets of the study. In addition, a highly specific probe (caspase-1 probe) was also tested and showed high selectivity towards caspase-1 over other noncaspase cysteine proteases. The microarray-based strategy is a protein-array based strategy that allows the detection of proteins not merely by their binding, but rather by their enzymic activities. The strategy may be used as a viable means for rapid assessment of a candidate drug against a large number of its potential target enzymes.  
 IT 615557-62-5  
 RL: ARG (Analytical reagent use); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (strategy for activity-based detection of enzymes in a protein microarray)  
 RN 615557-62-5 CAPLUS  
 CN 3H-Indolium, 2-[3-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-1-propen-1-yl]-1-(20-fluoro-20-oxido-5,10-dioxo-21-oxa-6,9-diaza-20-phosphatricos-1-yl)-3,3-dimethyl- (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



OSC.G 62 THERE ARE 62 CAPLUS RECORDS THAT CITE THIS RECORD (63 CITINGS)  
 RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s fluoroalkylphosphate? or fluorophosphate?  
 26 FLUOROALKYLPHOSPHATE?  
 6582 FLUOROPHOSPHATE?  
 L5 6605 FLUOROALKYLPHOSPHATE? OR FLUOROPHOSPHATE?

=> s 15 and ?cyanine?  
 73362 ?CYANINE?  
 L6 16 L5 AND ?CYANINE?

=> d 1-16 bib abs kwic

L6 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2008:1039427 CAPLUS

DN 149:296244

TI Presensitized lithographic plates for direct IR laser platemaking and lithographic printing using them with on-machine development

IN Suzuki, Akihiro; Kawaguchi, Junji

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 72pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2008195018	A	20080828	JP 2007-34910	20070215
PRAI	JP 2007-34910		20070215		
OS	MARPAT 149:296244				

AB The plates have image-forming layers removable by printing inks and/or dampening water, and containing (A) radical generators, (B) IR absorbers, e.g., cyanine dyes, (C) ethylenically unsatd. compds., and (D) compds. having counter anions chosen from  $\text{AsF}_6^-$ ,  $\text{BF}_4^-$ ,  $\text{PF}_6^-$ ,  $\text{SbF}_6^-$ , and  $\text{ClO}_4^-$  other than A-C. Polymerizable compns. containing A-D, and microcapsules or microgels are also claimed. Preferably, the plates further have protective layers containing mica on the image-forming layers. The plates show good ink absorption and durability, and produce images with good visibility after platemaking.

AB . . . plates have image-forming layers removable by printing inks and/or dampening water, and containing (A) radical generators, (B) IR absorbers, e.g., cyanine dyes, (C) ethylenically unsatd. compds., and (D) compds. having counter anions chosen from  $\text{AsF}_6^-$ ,  $\text{BF}_4^-$ ,  $\text{PF}_6^-$ ,  $\text{SbF}_6^-$ , and  $\text{ClO}_4^-$  other. . .

ST machine development IR laser presensitized lithog plate;

fluorophosphate lithog plate image visibility

IT Optical materials  
(IR absorbers, cyanine dyes; IR laser-sensitive presensitized lithog. plates for platemaking and lithog. printing with on-machine development)

IT Cyanine dyes  
(IR-absorbing; IR laser-sensitive presensitized lithog. plates for platemaking and lithog. printing with on-machine development)

IT IR materials  
(absorbers, cyanine dyes; IR laser-sensitive presensitized lithog. plates for platemaking and lithog. printing with on-machine development)

L6 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2007:508624 CAPLUS

DN 146:502522

TI Non-woven fabric with absorbent indicator

IN Canales Espinosa De Los Monteros, Carlos; Fajardo Eslaba, Bernardo

PA Grupo P.I. Mabe, S.A. De C.V., Mex.

SO PCT Int. Appl., 15pp.

CODEN: PIXXD2

DT Patent

LA Spanish

FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007053001	A2	20070510	WO 2006-MX120	20061103
	WO 2007053001	A3	20090416		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
	MX 2005011978	A	20070503	MX 2005-11978	20051104
	EP 1944159	A2	20080716	EP 2006-824214	20061103
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
	US 20080305700	A1	20081211	US 2008-92541	20080711
PRAI	MX 2005-11978	A	20051104		
	WO 2006-MX120	W	20061103		

AB The non-woven fabric which is intended to be used in a disposable absorbent article contains a fluorophosphate optical indicator that is visible upon exposure to IR light, a thermal indicator visible upon heating to 25-80°, or a dye. The dye is selected from indigo dye, thio-indigo, Cu phthalocyanines, thiazoles, toluediamines, quinaphthalones, alizarins, naphtholes, diazonaphtholes, azo dyes, and their derivs. The fabric consists of conventional natural or synthetic fibers, treated with surfactants to modify hydrophobicity, and has protective layers.

AB The non-woven fabric which is intended to be used in a disposable absorbent article contains a fluorophosphate optical indicator that is visible upon exposure to IR light, a thermal indicator visible upon heating to 25-80°, or a dye. The dye is selected from indigo

dye, thio-indigo, Cu phthalocyanines, thiazoles, toluenediamines, quinaphthalones, alizarins, naphtholes, diazonaphtholes, azo dyes, and their derivs. The fabric consists of conventional natural or synthetic fibers, . . .

IT 147-14-8, Copper phthalocyanine

RL: TEM (Technical or engineered material use); USES (Uses)

(disposable absorbent pads of non-woven fabric with wetness indicator)

L6 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2002:332298 CAPLUS

DN 136:343182

TI Removal of mercaptans from hydrocarbon streams using ionic liquids

IN O'Rear, Dennis J.; Boudreau, Laura C.; Driver, Michael S.; Munson, Curtis L.

PA Chevron U.S.A. Inc., USA

SO PCT Int. Appl., 19 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO 2002034863	A1	20020502	WO 2001-US32211	20011016	
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW		
	RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
	CA 2426770	A1	20020502	CA 2001-2426770	20011016	
	AU 2002016629	A	20020506	AU 2002-16629	20011016	
	EP 1337605	A1	20030827	EP 2001-988754	20011016	
	R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR		
PRAI	US 2000-697200	A	20001026			
	WO 2001-US32211	W	20011016			

AB Methods for removing mercaptans from hydrocarbons streams, e.g. crude oil and natural gas, are provided. The methods use basic metal salts which react with mercaptans to form mercaptides. The metal salts are dissolved or suspended in ionic liqs., which tend to have virtually no vapor pressure. After the mercaptides are adsorbed into the ionic liquid, the demercaptanized hydrocarbon stream can be removed, e.g. by distillation, decantation or gravity separation. Then the mercaptides can be oxidized, e.g., by exposure to air, to form disulfides. The disulfides are insol. in the ionic liqs., and can be readily removed. NaOH is a preferred salt. Non-H<sub>2</sub>O reactive ionic liqs. are preferred. The mercaptan-containing hydrocarbon stream can be in the gas phase or in the liquid phase. The flow of hydrocarbon stream over/through the ionic liquid can be e.g., co-current, counter-current, or staged in stirred tanks, with countercurrent being preferred.

OSC.G 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 628-13-7D, Pyridinium chloride, N-Hexyl 1124-64-7, N-Butylpyridinium chloride 79917-90-1, 1-Butyl-3-methylimidazolium chloride 171058-17-6, 1-Hexyl-3-methylimidazolium chloride

RL: FMU (Formation, unclassified); NUU (Other use, unclassified); RCT

(Reactant); FORM (Formation, nonpreparative); RACT (Reactant or reagent);

## USES (Uses)

(formation of ionic liquid with fluoroborate or fluorophosphate  
; removal of mercaptans from hydrocarbon streams using ionic liqs.)

IT 3317-67-7, Cobalt phthalocyanine

RL: CAT (Catalyst use); NUU (Other use, unclassified); USES (Uses)  
(removal of mercaptans from hydrocarbon streams using ionic liqs.)

L6 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2002:290398 CAPLUS

DN 137:87446

TI A novel phthalocyanine-based dimer linked by a silver ion:  
structural control of self-assembled dimers

AU Ishii, Kazuyuki; Watanabe, Yoko; Abiko, Satoko; Kobayashi, Nagao

CS Department of Chemistry, Graduate School of Science, Tohoku University,  
Sendai, 980-8578, Japan

SO Chemistry Letters (2002), (4), 450-451

CODEN: CMLTAG; ISSN: 0366-7022

PB Chemical Society of Japan

DT Journal

LA English

OS CASREACT 137:87446

AB A novel phthalocyanine-based dimer, which is a dinuclear  
pyridino-tri-tert-butylbenzotetraazaporphinatozinc linked by a Ag ion, was  
synthesized to control the states of assembly and characterized using  
electronic absorption and MCD spectroscopy.

OSC.G 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

TI A novel phthalocyanine-based dimer linked by a silver ion:  
structural control of self-assembled dimers

AB A novel phthalocyanine-based dimer, which is a dinuclear  
pyridino-tri-tert-butylbenzotetraazaporphinatozinc linked by a Ag ion, was  
synthesized to control the states of assembly and. . .

IT Magnetic circular dichroism

(of self-assembled phthalocyanine-based dimer linked by  
silver ion)

IT UV and visible spectra

(of self-assembled phthalocyanine-based dimers with/without  
silver ion)

IT Self-assembly

(structural control of self-assembled phthalocyanine-based  
dimers)

IT 440646-00-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(for preparation of self-assembled phthalocyanine-based dimers  
with/without silver ion)

IT 440645-99-8

RL: FMU (Formation, unclassified); PRP (Properties); RCT (Reactant); FORM  
(Formation, nonpreparative); RACT (Reactant or reagent)

(formation, electronic spectrum and reaction with silver  
fluorophosphate)

L6 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2001:124035 CAPLUS

DN 134:167003

TI Lead-free low-melting point glass having good optical functionality

IN Lin, Hung; Yokoo, Toshinobu; Takahashi, Masahide

PA Kansai Shingijutsu Kenkyusho K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001048575	A	20010220	JP 1999-217103	19990730
PRAI	JP 1999-217103		19990730		
AB	The glass contains P2O <sub>5</sub> 5-90, SnF <sub>2</sub> 8-93, SnO 0-93, and ZnF <sub>2</sub> 0-10 mol%. Preferably, the glass further contains organic compound having optical transition property and/or an organic compound having non-linear optical property.				
ST	optical part tin zinc fluorophosphate glass				
IT	Fluoride glasses Phosphate glasses RL: DEV (Device component use); PRP (Properties); TEM (Technical or engineered material use); USES (Uses) (fluorophosphate; lead-free low-m.p. glass having good optical functionality)				
IT	574-93-6, Phthalocyanine 989-38-8, Rhodamine 6G RL: MOA (Modifier or additive use); USES (Uses) (glass containing; lead-free low-m.p. glass having good optical functionality)				

L6 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2001:88887 CAPLUS

DN 134:302097

TI The electrochemistry of platinum phthalocyanine microcrystals.  
II. A microelectrode observation of nucleation-growth controlled solid-solid phase transformations in non-aqueous solvent

AU Jiang, J.; Kucernak, A.

CS Department of Chemistry, Imperial College, London, SW7 2AZ, UK

SO Electrochimica Acta (2001), 46(8), 1223-1231

CODEN: ELCAAV; ISSN: 0013-4686

PB Elsevier Science Ltd.

DT Journal

LA English

AB The solid-solid phase transformations and switching reactions occurring in platinum phthalocyanine (PtPc) microcrystals were studied by chronoamperometry on a microelectrode in acetonitrile containing 0.1 mol dm<sup>-3</sup> of the tetrabutylammonium salt of either BF<sub>4</sub><sup>-</sup>, ClO<sub>4</sub><sup>-</sup> or PF<sub>6</sub><sup>-</sup>. Three different states of the PtPc film (reduced, conductive and over-doped) can be demarcated, depending on its degree of oxidation. The transient response seen is dependent upon the initial and final state of the film. For the reduced film, a nucleation-growth process occurs in the film upon the application of an oxidative potential step to >0.50 V. If the end-point of the potential step is increased past 0.75 V, a 2nd nucleation-growth process occurs leading to the conductive film. Both of these processes are controlled by a solid-solid phase transformation. At potentials .gtorsim.1.1 V there is evidence of a further diffusion-controlled reaction, giving the over-doped film. Oxidation or reduction of the conductive film occurs quickly and appears to be diffusion controlled with no indications of a peak or shoulder in the current-time transients. Reduction of the over-doped film, appears to be controlled by one and possibly two nucleation-growth processes as evidenced by peaks in the chronoamperometric transient. The kinetics of solid-solid phase transformation and the switching reaction is only affected slightly by the nature of the anions present.

OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

RE.CNT 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

TI The electrochemistry of platinum phthalocyanine microcrystals.  
II. A microelectrode observation of nucleation-growth controlled



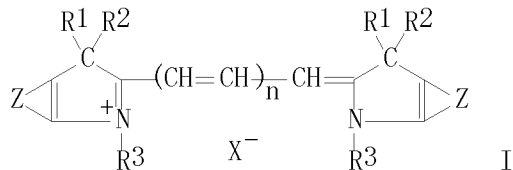
- solid-solid phase transformations in non-aqueous solvent
- AB The solid-solid phase transformations and switching reactions occurring in platinum phthalocyanine (PtPc) microcrystals were studied by chronoamperometry on a microelectrode in acetonitrile containing 0.1 mol dm<sup>-3</sup> of the tetrabutylammonium salt of. . .
- ST microelectrode study nucleation growth controlled solid phase transformation; platinum phthalocyanine microcrystal microelectrode chronoamperometry solid phase transformation switching
- IT Electrochromic materials  
(Pt phthalocyanine)
- IT Films  
(elec. conductive; Pt phthalocyanine on carbon microelectrodes)
- IT Redox reaction  
(electrochem. ; of Pt phthalocyanine on carbon fiber microelectrode in MeCN containing tetrabutylammonium salts: microelectrode observation of nucleation-growth controlled solid-solid phase transformations in non-aqueous solvent)
- IT Electric conductors  
(films; Pt phthalocyanine on carbon microelectrodes)
- IT Crystal nucleation  
(in solid-solid phase transformations of Pt phthalocyanine on microelectrodes in MeCN containing tetrabutylammonium salts)
- IT Carbon fibers, uses  
RL: DEV (Device component use); PRP (Properties); USES (Uses)  
(microelectrode with attached Pt phthalocyanine: solid-solid phase transformations and switching reactions occurring in Pt phthalocyanine microcrystals studied by chronoamperometry on microelectrode in MeCN containing tetrabutylammonium salts)
- IT Oxidation, electrochemical  
Reduction, electrochemical  
(of Pt phthalocyanine on carbon fiber microelectrode in MeCN containing tetrabutylammonium salts: microelectrode observation of nucleation-growth controlled solid-solid phase transformations in non-aqueous solvent)
- IT Cyclic voltammetry  
(of Pt phthalocyanine on carbon microelectrodes in MeCN containing tetrabutylammonium salts)
- IT Chronoamperometry  
Electric switching  
Structural phase transition  
(solid-solid phase transformations and switching reactions occurring in Pt phthalocyanine microcrystals studied by chronoamperometry on microelectrode in MeCN containing tetrabutylammonium fluoroborate or perchlorate or fluorophosphate)
- IT 7440-44-0, Carbon, uses  
RL: DEV (Device component use); PRP (Properties); USES (Uses)  
(cyclic voltammetry of Pt phthalocyanine on carbon microelectrodes in MeCN containing tetrabutylammonium salts)
- IT 429-42-5, Tetrabutylammonium tetrafluoroborate 1923-70-2, Tetrabutylammonium perchlorate 3109-63-5, Tetrabutylammonium hexafluorophosphate  
RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process); USES (Uses)  
(solid-solid phase transformations and switching reactions occurring in Pt phthalocyanine microcrystals studied by chronoamperometry on microelectrode in MeCN containing)
- IT 14075-08-2, Platinum phthalocyanine  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)  
(solid-solid phase transformations and switching reactions occurring in

Pt phthalocyanine microcrystals studied by chronoamperometry  
on microelectrode in MeCN containing tetrabutylammonium fluoroborate or  
perchlorate or fluorophosphate)

L6 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN  
AN 1997:461280 CAPLUS  
DN 127:183663  
OREF 127:35469a,35472a  
TI One-dimensional staircase aggregates in crystals of  
1,7-bis(dimethylamino)heptamethinium hexafluorophosphate, a polymethine  
dye  
AU Dahne, L.; Zobel, D.; Reck, G.  
CS Institut Physikalische Chemie, Freie Universitat Berlin, Berlin, D-14195,  
Germany  
SO Zeitschrift fuer Kristallographie (1997), 212(7), 529-531  
CODEN: ZEKRDZ; ISSN: 0044-2968  
PB Oldenbourg  
DT Journal  
LA English  
AB The title compound C<sub>11</sub>H<sub>19</sub>N<sub>2</sub>.PF<sub>6</sub> crystallizes in the monoclinic space group  
C2/m, a 1234.4, b 942.8, c 717.6 pm,  $\beta$  109.95°, Z = 2, and dc  
= 1.372, R = 0.08 and wR<sub>2</sub> = 0.2655 for 627 reflections with I >  
2 $\sigma$ (I) at 298 K. Atomic coordinates are given. The cation as well as  
the anion are disordered. A polarization of the polymethine system by the  
counterion is not observed, because the dye mol. exhibits a sym. polymethine  
structure. The chromophores are closely stacked in 1D staircase  
aggregates which are separated by the counterions. Their parallel arrangement  
in the unit cell should lead to only one transition dipole moment.  
OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)  
ST mol structure heptamethinium fluorophosphate dye; polymethine  
dye crystal mol structure  
IT Cyanine dyes  
(crystal and mol. structure of bis(dimethylamino)heptamethinium  
hexafluorophosphate)

L6 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN  
AN 1994:446722 CAPLUS  
DN 121:46722  
OREF 121:8263a,8266a  
TI Optical image-recording sheet  
IN Hosoda, Yukio; Furusawa, Makoto  
PA Oji Paper Co, Japan  
SO Jpn. Kokai Tokkyo Koho, 13 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05173282	A	19930713	JP 1991-339184	19911224
PRAI	JP 1991-339184		19911224		
GI					



AB In the title optical recording sheet comprising on its sheet support a recording layer containing a photo-cationic reaction initiator, a sensitizing dye, and a color forming dye, the above photo-cationic reaction initiator is a Fe-arene type compound, and the sensitizing dye is a cyanine type one I [R1-3 = H, halo, NO<sub>2</sub>, CN, sulfo, carboxy, alkyl, alkene group, alkane group, alkoxy, alkylhydroxy, arylalkyl, intramol. anionic function group derived from a sulfonic acid or carboxylic acid; n = 0-4; Z = aromatic ring; X = perchlorate, Br, I, tosylate, fluorophosphate, fluoroborate, fluoroantimonate, triflate, fluoroarsenate]. Images can be produced on the above image-recording layer through direct writing with a laser beam.

AB . . . a color forming dye, the above photo-cationic reaction initiator is a Fe-arene type compound, and the sensitizing dye is a cyanine type one I [R1-3 = H, halo, NO<sub>2</sub>, CN, sulfo, carboxy, alkyl, alkene group, alkane group, alkoxy, alkylhydroxy, arylalkyl, intramol. . . . from a sulfonic acid or carboxylic acid; n = 0-4; Z = aromatic ring; X = perchlorate, Br, I, tosylate, fluorophosphate, fluoroborate, fluoroantimonate, triflate, fluoroarsenate]. Images can be produced on the above image-recording layer through direct writing with a laser beam.

L6 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1992:419566 CAPLUS

DN 117:19566

OREF 117:3355a, 3358a

TI Evaluation of an interdigitated gate electrode field-effect transistor for detecting organophosphorus compounds

AU Brothers, C. P.

CS Sch. Eng., Air Force Inst. Technol., Wright-Patterson AFB, OH, USA

SO Report (1990), AFIT/GE/ENG/90D-07; Order No. AD-A230 161, 247 pp. Avail.: NTIS

From: Gov. Rep. Announce. Index (U. S.) 1991, 91(12), Abstr. No. 131,866

DT Report

LA English

AB This study used integrated circuit microsensors to detect organophosphorus compds. Chemical-sensitive thin films, copper phthalocyanine, DFPase, succinyl chloride, succinylcholine chloride, 2-naphthol(B), and L-histidine dihydrochloride, were deposited on interdigitated gate electrode (IGE) structures, with an average thickness of 2000 Å. Thin film elec. performance characteristics were measured for several parameters, including: dc resistance, ac impedance, time-domain, and spectral responses from 10 Hz to 1 MHz. Each microsensor contained nine IGEs; each IGE possessed an in situ field-effect transistor amplifier. After purging each sensor with filtered air, it was exposed to one or two of the following gases: diisopropyl fluorophosphate (DFP), diisopropylmethylphosphonate, and di-Me methylphosphonate at concns. spanning 100 ppb to 10 ppm (at 90% relative humidity). Testing was conducted with microsensors heated to 30°, 50°, and 70°. All six candidate films, demonstrated various degrees of sensitivity to the challenge gases at 30°. DFPase was especially sensitive to the challenge gases at 100 ppb. Only copper phthalocyanine and L-histidine dihydrochloride demonstrated sensitivity above 30°. In particular 2-naphthol(B) showed complete reversibility and succinyl chloride demonstrated partial reversibility at 30°. Copper phthalocyanine was reversible only at 70°. Succinylcholine chloride demonstrated a unique band-reject filter response to the presence of DFP in any challenge gas sample.

AB This study used integrated circuit microsensors to detect organophosphorus compds. Chemical-sensitive thin films, copper phthalocyanine, DFPase, succinyl chloride, succinylcholine chloride, 2-naphthol(B), and

L-histidine dihydrochloride, were deposited on interdigitated gate electrode (IGE) structures, with an average. . . amplifier. After purging each sensor with filtered air, it was exposed to one or two of the following gases: diisopropyl fluorophosphate (DFP), diisopropylmethylphosphonate, and di-Me methylphosphonate at concns. spanning 100 ppb to 10 ppm (at 90% relative humidity). Testing was conducted. . . sensitivity to the challenge gases at 30° . DFPase was especially sensitive to the challenge gases at 100 ppb. Only copper phthalocyanine and L-histidine dihydrochloride demonstrated sensitivity above 30° . In particular 2-naphthol(B) showed complete reversibility and succinyl chloride demonstrated partial reversibility at 30° . Copper phthalocyanine was reversible only at 70° . Succinylcholine chloride demonstrated a unique band-reject filter response to the presence of DFP in any. . .

IT 71-27-2, Succinylcholine chloride 135-19-3, 2-Naphthol, analysis 147-14-8, Copper phthalocyanine 543-20-4, Succinyl chloride 6027-02-7, L-Histidine dihydrochloride 9032-18-2, DFPase  
 RL: ANST (Analytical study)  
 (interdigitated gate electrode coated with, in integrated circuit microsensors for detection of organophosphorus compds.)

L6 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1990:643335 CAPLUS

DN 113:243335

OREF 113:40799a,40802a

TI Line-shape analysis of the carbon-13 Overhauser shift in organic conductors and semiconductors

AU Gotschy, B.; Denninger, G.

CS Phys. Inst., Univ. Bayreuth, Bayreuth, D-8580, Germany

SO Molecular Physics (1990), 71(1), 169-80

CODEN: MOPHAM; ISSN: 0026-8976

DT Journal

LA English

AB In organic conductors such as (fluoranthene)2PF6 or pyrene radical-cation salts, and organic semiconductors such as lithium phthalocyanine, a shift of the conduction-ESR (CESR) frequency is observed. This so-called Overhauser shift is significant compared with the CESR linewidth and is caused by the averaged hyperfine interaction between the conduction electrons and the nuclei. This shift can be measured using a double-resonance method, and it can be enhanced by two or three orders of magnitude by partially saturating the CESR. It provides a sensitive probe for the detection of NMR. The measurements of the 13C induced Overhauser shift are reported. By means of a lineshape anal. of the 13C resonance curves, we investigated the distribution of the conduction electrons over these mol. systems.

OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

AB In organic conductors such as (fluoranthene)2PF6 or pyrene radical-cation salts, and organic semiconductors such as lithium phthalocyanine, a shift of the conduction-ESR (CESR) frequency is observed. This so-called Overhauser shift is significant compared with the CESR linewidth. . .

IT Overhauser effect

(of fluoranthene fluorophosphate conduction ESR,  
 carbon-13-induced)

L6 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1990:480503 CAPLUS

DN 113:80503

OREF 113:13616h,13617a

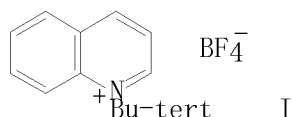
TI Carrying out solvent-free organic and inorganic reactions in extruders

AU Kochmann, Werner; Pieschel, Friedemann; Lange, Eckehard; Reinholz, Siegfried

- CS VEB Chemiekomb., Bitterfeld, DDR-4400, Ger. Dem. Rep.  
 SO Mitteilungsblatt - Chemische Gesellschaft der Deutschen Demokratischen Republik (1990), 37(4), 74-9  
 CODEN: CGDMBG; ISSN: 0411-8987  
 DT Journal; General Review  
 LA German  
 AB A review with no refs. dealing with examples for extruder use in the solvent-free production of phthalocyanine, gamma acid, sulfanilic acid, azo dye intermediates, sulfur dyes, and K2P03F.  
 AB A review with no refs. dealing with examples for extruder use in the solvent-free production of phthalocyanine, gamma acid, sulfanilic acid, azo dye intermediates, sulfur dyes, and K2P03F.  
 ST review solvent free dye manuf; extrusion reaction org inorg review; potassium fluorophosphate prodn review  
 IT 90-51-7P 121-57-3P 574-93-6P, 29H, 31H-Phthalocyanine  
 14104-28-0P  
 RL: PREP (Preparation)  
 (production of, use of extruders in)
- L6 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 1988:601955 CAPLUS  
 DN 109:201955  
 OREF 109:33249a, 33252a  
 TI Crystal structure of hexaazaoctadecahydrocoronene dication [HAOC]2+, a singlet benzene dication  
 AU Miller, Joel S.; Dixon, David A.; Calabrese, Joseph C.  
 CS Cent. Res. Dev. Dep., E. I. du Pont de Nemours and Co., Inc., Wilmington, DE, 19898, USA  
 SO Science (Washington, DC, United States) (1988), 240(4856), 1185-8  
 CODEN: SCIEAS; ISSN: 0036-8075  
 DT Journal  
 LA English  
 AB HAOC (hexaazaoctadecahydrocoronene) at -70° is monoclinic, space group P21/c, with a 9.784(2), b 9.384(4), c 9.614(8) Å, and  $\beta$  117.54(3)°; Z = 2; Rw = 5.3%. HAOC was oxidized with Ag+ to [HAOC]2+; the 1:2 salts with [BF4]- and [PF6]- are monoclinic, space group P21/n, a 6.604(1), b 10.929(2), c 14.255(3) Å,  $\beta$  91.33(1)°; Z = 2, Rw = 4.3% and triclinic, space group P.hivin.1, a 6.666(2), b 8.915(1), c 10.632(2) Å,  $\alpha$  100.45(1),  $\beta$  108.82(2),  $\gamma$  105.09(1)°, Z = 2, Rw = 4.3%, resp. Although HAOC is aromatic, its dication has a localized structure that is based upon Jahn-Teller-distorted cyanine/p-phenylenediammonium fragments. The structure is consistent with the singlet ground state as determined by magnetic susceptibility and contrasts with the simplest Hueckel expectation of a triplet ground state.
- OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)  
 AB . . . 2, Rw = 4.3%, resp. Although HAOC is aromatic, its dication has a localized structure that is based upon Jahn-Teller-distorted cyanine/p-phenylenediammonium fragments. The structure is consistent with the singlet ground state as determined by magnetic susceptibility and contrasts with the simplest. . .
- ST electrochem oxidn hexaazaoctadecahydrocoronene; mol structure hexaazaoctadecahydrocoronene cation salt; magnetic susceptibility hexaazaoctadecahydrocoronene salt; fluorophosphate hexaazaoctadecahydrocoronene cation structure; phosphate fluoro hexaazaoctadecahydrocoronene cation structure; borate fluoro hexaazaoctadecahydrocoronene cation structure
- L6 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 1987:166127 CAPLUS  
 DN 106:166127

OREF 106:26851a,26854a  
 TI Toners for electrostatic image development  
 IN Tanaka, Katsuhiko; Fukumoto, Hiroshi  
 PA Canon K. K., Japan  
 SO Jpn. Kokai Tokkyo Koho, 11 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 61194452	A	19860828	JP 1985-34529	19850225
	JP 07031413	B	19950410		
PRAI	JP 1985-34529		19850225		
GI					



AB The title toners contain a quinolinium salt having BF<sub>4</sub><sup>-</sup> or PF<sub>6</sub><sup>-</sup> as the counter ion to give stable and adequate triboelec. charge, sharp charge distribution, and high d. images without fog and to exhibit good durability, environmental stability, storage stability, fixability, and antioffset properties. A mixture of Bu acrylate-styrene copolymer 100, Mitsubishi #44 (C black) 10, low mol. weight polyethylene wax 2, and I 2 parts was kneaded, pulverized, and then mixed with an Fe powder to give an electrostatog. developer, which showed good performance as compared to a control containing a nigrosine dye instead of I.

ST quinolinium salt toner electrostatog; fluoroborate ion salt toner electrostatog; fluorophosphate ion salt toner electrostatog; charge control agent toner electrostatog

IT 147-14-8, Copper phthalocyanine blue 25767-47-9, Butyl acrylate-styrene copolymer

RL: USES (Uses)  
 (electrostatog. developer with toner containing quinolinium tetrafluoroborate or hexafluorophosphate and, for improved charging characteristics)

L6 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 1985:159444 CAPLUS  
 DN 102:159444  
 OREF 102:24929a,24932a  
 TI Partially oxidized Group 3A fluorometallophthalocyanines  
 AU Brant, Patrick; Weber, David C.; Haupt, Steven G.; Nohr, Ronald S.; Wynne, Kenneth J.  
 CS Chem. Div., Nav. Res. Lab., Washington, DC, 20375, USA  
 SO Journal of the Chemical Society, Dalton Transactions: Inorganic Chemistry (1972-1999) (1985), (2), 269-74  
 CODEN: JCDBTI; ISSN: 0300-9246  
 DT Journal  
 LA English  
 AB The F-bridged polymeric complexes (MLF)<sub>n</sub> (M = Al, Ga; H<sub>2</sub>L = phthalocyanine) react smoothly with NO<sub>2</sub> (Z = BF<sub>4</sub>, PF<sub>6</sub>) in dry MeNO<sub>2</sub> or CH<sub>2</sub>Cl<sub>2</sub> to give partially oxidized products MLFZ<sub>x</sub> (I; 0 < x < 0.9). Pressed pellets of I have conductivities ≤ 10 Ω<sup>-1</sup> cm<sup>-1</sup>, which are maintained indefinitely in ambient air. I are thermally

stable up to .apprx.150° ;primary decomposition products are fluorinated organic compds. and anion fragments. New x-ray powder diffraction lines for I correspond to some disruption of the original crystal lattice. The intensity of a broad electronic transition in the IR spectra of I increases with increasing dopant concentration I all contain delocalized unpaired spins whereas (MLF)<sub>n</sub> are diamagnetic. Spin densities in I at room temperature are 0.005-0.18 spins per dopant mol. Pauli-like behavior with a Curie tail, and antiferromagnetic behavior were detected for different I. The x-ray photoelectron spectra of I are consistent with delocalized pos. charges (holes) on the phthalocyanine rings. The dopant anions are located inside channels created by the surrounding macrocycles.

TI Partially oxidized Group 3A fluorometallophthalocyanines

AB The F-bridged polymeric complexes (MLF)<sub>n</sub> (M = Al, Ga; H<sub>2</sub>L = phthalocyanine) react smoothly with NO<sub>2</sub> (Z = BF<sub>4</sub>, PF<sub>6</sub>) in dry MeNO<sub>2</sub> or CH<sub>2</sub>Cl<sub>2</sub> to give partially oxidized products MLFZ<sub>x</sub> (I; . . . were detected for different I. The x-ray photoelectron spectra of I are consistent with delocalized pos. charges (holes) on the phthalocyanine rings. The dopant anions are located inside channels created by the surrounding macrocycles.

ST aluminum phthalocyanine fluoro fluoroborato; gallium phthalocyanine fluoro fluoroborato; fluorophosphate phthalocyanine aluminum; cond aluminum gallium phthalocyanine complex; magnetism aluminum gallium phthalocyanine complex; ESR aluminum gallium phthalocyanine complex

IT Krogmann salts

RL: RCT (Reactant); RACT (Reactant or reagent)  
(aluminum and gallium fluoro phthalocyanine complexes)

L6 ANSWER 15 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1984:28392 CAPLUS

DN 100:28392

OREF 100:4357a, 4360a

TI Resistivity of doped phthalocyanines to 6.5 GPa

AU Webb, A. W.; Brant, P.; Nohr, R. S.; Weber, D. C.

CS Nav. Res. Lab., Washington, DC, 20375, USA

SO Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1982), 23(1), 127-8

CODEN: ACPPAY; ISSN: 0032-3934

DT Journal

LA English

AB The elec. resistivities (p') of PcAlF and PcGaF (H<sub>2</sub>Pc = phthalocyanine) were decreased by doping with I, BF<sub>4</sub><sup>-</sup>, PF<sub>6</sub><sup>-</sup>, and SbF<sub>6</sub><sup>-</sup>; the p' of the doped samples decreased with increasing pressure. Data are also given for PcAl(OH) and PcAlCl, doped with PF<sub>6</sub><sup>-</sup>.

TI Resistivity of doped phthalocyanines to 6.5 GPa

AB The elec. resistivities (p') of PcAlF and PcGaF (H<sub>2</sub>Pc = phthalocyanine) were decreased by doping with I, BF<sub>4</sub><sup>-</sup>, PF<sub>6</sub><sup>-</sup>, and SbF<sub>6</sub><sup>-</sup>; the p' of the doped samples decreased with increasing pressure.. .

ST fluoroaluminum phthalocyanine resistivity pressure; fluorogallium phthalocyanine resistivity pressure; gallium fluoride phthalocyanine resistivity pressure; aluminum fluoride phthalocyanine resistivity pressure; chloroaluminum phthalocyanine resistivity pressure; hydroxyaluminum phthalocyanine resistivity pressure; phthalocyanine compd resistivity pressure; iodine doped phthalocyanine compd resistivity; fluoroborate doped phthalocyanine compd; fluorophosphate doped phthalocyanine compd; fluoroantimonate doped phthalocyanine compd resistivity; boron fluoride phthalocyanine compd resistivity; phosphorus fluoride

phthalocyanine compd resistivity; antimony fluoride  
 phthalocyanine compd resistivity; elec resistivity  
 phthalocyanine deriv pressure

IT Piezoresistance  
 (of doped phthalocyanine compds., pressure dependence of)

IT 14874-70-5 16919-18-9 17111-95-4  
 RL: USES (Uses)  
 (elec. resistivity of phthalocyanine compds. doped with,  
 pressure dependence of)

IT 7553-56-2, properties  
 RL: PRP (Properties)  
 (elec. resistivity of phthalocyanine compds. doped with,  
 pressure dependence of)

L6 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 1966:411628 CAPLUS  
 DN 65:11628  
 OREF 65:2082c-e

TI Kinetics of the hydrolysis of organophosphorus compounds  
 AU Uhlik, B.; Weber, K.  
 CS Vet. Inst., Zagreb, Yugoslavia  
 SO Arhiv Hig. Rada Toksikol. (1965), 16(4), 329-42  
 DT Journal  
 LA Unavailable

AB Hydrolysis of sarin (I), tabun (II), and diisopropyl  
 fluorophosphate (III) were studied at 25, 35, and 45°, and  
 at 5 + 10<sup>-3</sup> volume% concentration of the substances. The concentration of the  
 compds. during the hydrolysis was followed by photoelec. measurements of  
 the fluorescence intensity. The hydrolysis rate of the compds. decreased  
 in the order II > III > I. The rates of hydrolysis for all 3 compds.  
 increased with an increase of the temperature and decreased in the presence of  
 MeOH, EtOH, and iso-PrOH. The inhibiting effect of the alcs. increased  
 with their concentration in solution and with their mol. weight Under similar  
 conditions, the inhibiting effect on the hydrolysis decreased in the order  
 III > I > II. The hydrolysis rate of I increased with the acidity of the  
 solution PhNH<sub>2</sub>, KI, and Br at concentration 10<sup>-6</sup> to 10<sup>-4</sup> mole in the reaction mixture  
 increased the hydrolysis rate of I. KI and PhOH had no effect on the  
 hydrolysis rate. The van't Hoff temperature quotients, Q<sub>10</sub>, were 2.951, 2.501,  
 3.100, and the activation energy 19,660, 16,807, and 20,810 cal./mole for  
 I, II, and III, resp. Decrease of pH lowered the temperature quotients and the  
 activation energy of the hydrolysis of I. The hydrolysis reactions of all  
 compds. at all temps. were 1st order. The half-decay time did not depend  
 on the concentration of the compound at the beginning of the reaction.

AB Hydrolysis of sarin (I), tabun (II), and diisopropyl  
 fluorophosphate (III) were studied at 25, 35, and 45°, and  
 at 5 + 10<sup>-3</sup> volume% concentration of the substances. The concentration. . .

IT Aniline, reaction products with HCHO, ruthenium complex with  
 phthalocyanine  
 (sarin hydrolysis in presence of)

=> f hid

800 HID  
 87 HIDS

L7 881 HID  
 (HID OR HIDS)

=> del 17  
 DELETE L7? (Y)/N:y

=> d his



(FILE 'HOME' ENTERED AT 14:51:05 ON 17 AUG 2009)

FILE 'REGISTRY' ENTERED AT 14:51:18 ON 17 AUG 2009

L1 STRUCTURE UPLOADED  
L2 0 S L1  
L3 1 S L1 FULL

FILE 'CAPLUS' ENTERED AT 14:52:36 ON 17 AUG 2009

L4 1 S L3  
L5 6605 S FLUOROALKYLPHOSPHATE? OR FLUOROPHOSPHATE?  
L6 16 S L5 AND ?CYANINE?

=> s 15 and polymethine  
2952 POLYMETHINE  
261 POLYMETHINES  
3019 POLYMETHINE  
(POLYMETHINE OR POLYMETHINES)  
L7 2 L5 AND POLYMETHINE

=> d 1-2 bib abs

L7 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN  
AN 1998:162756 CAPLUS  
DN 128:263170  
OREF 128:51985a,51988a  
TI Electrochemical oxidation of hexakis(dimethylamino)benzene  
AU Speiser, Bernd; Wurde, Marc; Maichle-Mossmer, Cacilia  
CS Institut fur Organische Chemie, Universitat Tübingen, Tübingen, D-72076,  
Germany  
S0 Chemistry--A European Journal (1998), 4(2), 222-233  
CODEN: CEUJED; ISSN: 0947-6539  
PB Wiley-VCH Verlag GmbH  
DT Journal  
LA English  
AB Hexakis(dimethylamino)benzene is anodically oxidized to its chemical stable  
dication in an electrochem. slow two-electron process. This redox process  
was characterized by cyclic voltammetry, chronoamperometry,  
chronocoulometry, and bulk electrolysis with isolation of the  
bis(hexafluorophosphate) of the dication. The crystal structure of this  
dication salt shows considerable distortion, in accord with earlier  
results for the bis(triiodide). The sluggishness of the electron transfer  
is related to structural changes during oxidation: two noncoplanar  
polymethine systems coupled by two long C-C single bonds form.  
The thermodyn. of the oxidation was characterized by inversion of potentials  
and disproportionation of a hypothetical radical cation. In contrast to  
earlier reports, no particular destabilization of the dication is assumed.  
Further oxidation of the dication proceeds via a tri- to a tetracation in two  
steps. The tri- and tetracations undergo chemical follow-up reactions.  
OSC.G 30 THERE ARE 30 CAPLUS RECORDS THAT CITE THIS RECORD (30 CITINGS)  
RE.CNT 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN  
AN 1997:461280 CAPLUS  
DN 127:183663  
OREF 127:35469a,35472a  
TI One-dimensional staircase aggregates in crystals of  
1,7-bis(dimethylamino)heptamethinium hexafluorophosphate, a  
polymethine dye  
AU Dahne, L.; Zobel, D.; Reck, G.

CS Institut Physikalische Chemie, Freie Universitat Berlin, Berlin, D-14195,  
Germany  
S0 Zeitschrift fuer Kristallographie (1997), 212(7), 529-531  
CODEN: ZEKRDZ; ISSN: 0044-2968  
PB Oldenbourg  
DT Journal  
LA English  
AB The title compound C<sub>11</sub>H<sub>19</sub>N<sub>2</sub>.PF<sub>6</sub> crystallizes in the monoclinic space group  
C2/m, a 1234.4, b 942.8, c 717.6 pm,  $\beta$  109.95°, Z = 2, and dc  
= 1.372, R = 0.08 and wR<sub>2</sub> = 0.2655 for 627 reflections with I >  
2 $\sigma$ (I) at 298 K. Atomic coordinates are given. The cation as well as  
the anion are disordered. A polarization of the polymethine  
system by the counterion is not observed, because the dye mol. exhibits a  
sym. polymethine structure. The chromophores are closely  
stacked in 1D staircase aggregates which are separated by the counterions.  
Their parallel arrangement in the unit cell should lead to only one  
transition dipole moment.  
OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

=> => d que 114 stat

L8 51 SEA FILE=CAPLUS ABB=ON PLU=ON ("IGNATYEV N V"/AU OR "IGNATYEV  
NICOLAI"/AU OR "IGNATYEV NIKOLAI"/AU OR "IGNATYEV NIKOLAI  
V"/AU)  
L9 228 SEA FILE=CAPLUS ABB=ON PLU=ON "WILLNER HELGE"/AU  
L10 36 SEA FILE=CAPLUS ABB=ON PLU=ON ("FINZE M"/AU OR "FINZE  
MAIK"/AU)  
L11 50 SEA FILE=CAPLUS ABB=ON PLU=ON ("BERNHARDT E O"/AU OR  
"BERNHARDT E S"/AU OR "BERNHARDT EDUARD"/AU)  
L12 23 SEA FILE=CAPLUS ABB=ON PLU=ON ("KUCHERYNA ANDRIY"/AU OR  
"KUCHERYNA ANDRIY I"/AU OR "KUCHERYNA ANDRY"/AU)  
L13 282 SEA FILE=CAPLUS ABB=ON PLU=ON L8 OR L9 OR L10 OR L11 OR L12  
L14 3 SEA FILE=CAPLUS ABB=ON PLU=ON L13 AND (POLYMETHINE OR  
?CYANINE?)

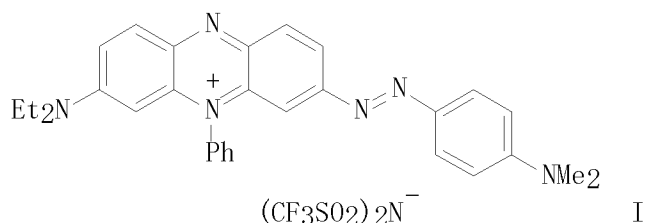
=> d 1-3 bib abs

L14 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN  
AN 2005:959665 CAPLUS  
DN 143:249722  
TI Imides of cationic dyes.  
IN Ignatyev, Nikolai; Welz-biermann, Urs; Kucheryna, Andriy  
; Willner, Helge  
PA Merck Patent GmbH, Germany  
S0 Ger. Offen., 55 pp.  
CODEN: GWXXBX  
DT Patent  
LA German  
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 102004007611	A1	20050901	DE 2004-102004007611	20040217
	EP 1660591	A1	20060531	EP 2004-763390	20040722
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
	JP 2007503477	T	20070222	JP 2006-523551	20040722
	US 20080275224	A1	20081106	US 2006-568526	20060217
PRAI	DE 2003-10338834	A	20030821		
	DE 2003-10338933	A	20030821		
	DE 2003-10357359	A	20031209		

DE 2003-10357360 A 20031209  
 DE 2004-102004007610 A 20040217  
 DE 2004-102004007611 A 20040217  
 WO 2004-EP8174 W 20040722

GI



AB Electrochem., thermal and hydrolysis-stable imides of cationic dyes comprising anion [(CpF<sub>2p+1</sub>-mHmXO<sub>y</sub>)N(CqF<sub>2q+1</sub>-kHkXO<sub>y</sub>)]<sup>-</sup> (X = C or S, p = 0 - 20 and 0 ≤ m ≤ 2p + 1, q = 0 - 20 and 0 ≤ k ≤ y<sub>2q</sub> + 1, y = 1 or 2, x = 0 - 3) are useful for dyeing fibers, plastics, paper and leather, for production of flexog. printing inks, ball point pen inks and stamp pad inks. Thus, imide I prepared by mixing a solution of 0.43 g Janus Green in 100 mL of water with 0.25 g of lithium bis(trifluoromethanesulfonyl)imide in 5 mL of water with 69.3% yield has a very good solubility in methanol, Et acetate and THF.

L14 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2005:959664 CAPLUS

DN 143:268287

TI Cyanoborates of cationic dyes.

IN Ignatyev, Nikolai; Welz-biermann, Urs; Kucheryna, Andriy  
 ; Willner, Helge

PA Merck Patent GmbH, Germany

S0 Ger. Offen., 51 pp.

CODEN: GWXXBX

DT Patent

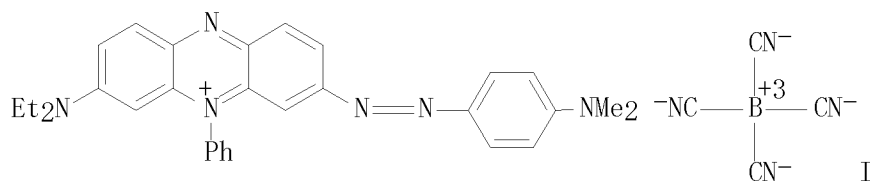
LA German

FAN. CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 102004007610	A1	20050901	DE 2004-102004007610	20040217
	EP 1660591	A1	20060531	EP 2004-763390	20040722
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
	JP 2007503477	T	20070222	JP 2006-523551	20040722
	US 20080275224	A1	20081106	US 2006-568526	20060217
PRAI	DE 2003-10338834	A	20030821		
	DE 2003-10338933	A	20030821		
	DE 2003-10357359	A	20031209		
	DE 2003-10357360	A	20031209		
	DE 2004-102004007610	A	20040217		
	DE 2004-102004007611	A	20040217		
	WO 2004-EP8174	W	20040722		

OS MARPAT 143:268287

GI



AB Electrochem., thermal and hydrolysis-stable cyano borates of cationic dyes comprising anion  $[B(CN)_4 - y - xR_x]^-$  ( $y = 1 - 4$ ,  $x = 0 - 3$  and  $R = H$ , alkyl, aryl, fluorinated alkyl, fluorinated aryl, cycloalkyl or alkyl aryl) are useful for dyeing fibers, plastics, paper and leather, for production of flexog. printing inks, ball point pen inks and stamp pad inks. Thus, cyano borate I prepared by mixing a solution of 0.49 g Janus Green in 100 mL of water with 0.15 g of  $K[B(CN)_4]$  in 5 mL of water with 72.4% yield has a very good solubility in methanol, Et acetate and THF.

L14 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2005:219829 CAPLUS

DN 142:299401

TI Cyanoborate, fluoroalkyl phosphate, fluoroalkyl borate or imide dyes

IN Ignatyev, Nikolai; Welz-Biermann, Urs; Willner, Helge;

Finze, Maik; Bernhardt, Eduard; Kucheryna,

Andriy

PA Merck Patent GmbH, Germany

SO PCT Int. Appl., 137 pp.

CODEN: PIXXD2

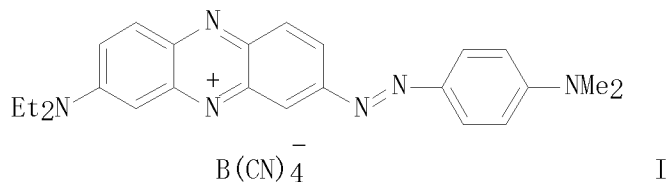
DT Patent

LA German

FAN. CNT 3

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	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
	JP 2007503477	T	20070222	JP 2006-523551	20040722
	US 20080275224	A1	20081106	US 2006-568526	20060217
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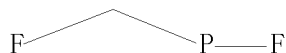
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 WO 2004-EP8174 W 20040722  
 OS MARPAT 142:299401  
 GI



AB The title dyes, which are electrochem., thermally, and hydrolytically stable and have good solubility, have cations and anions of specified structure. Adding 0.975 mol K[B(CN)<sub>4</sub>] in 5 mL H<sub>2</sub>O to 0.959 mmol Janus green in 100 mL H<sub>2</sub>O dropwise with stirring gave 72.4% Janus green tetracyanoborate (I).

OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)  
 RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> => d que 120 stat  
 L17 STR



Structure attributes must be viewed using STN Express query preparation.

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 L20 407 SEA FILE=CAPLUS ABB=ON PLU=ON L19

=> s 120 and (polymethine? or ?cyanine?)  
 3112 POLYMETHINE?  
 73362 ?CYANINE?  
 L21 1 L20 AND (POLYMETHINE? OR ?CYANINE?)

=> d bib abs hitstr

L21 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2005:219829 CAPLUS  
 DN 142:299401  
 TI Cyanoborate, fluoroalkyl phosphate, fluoroalkyl borate or imide dyes  
 IN Ignatyev, Nikolai; Welz-Biermann, Urs; Willner, Helge; Finze, Maik;  
 Bernhardt, Eduard; Kucheryna, Andriy  
 PA Merck Patent GmbH, Germany  
 SO PCT Int. Appl., 137 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005021661	A1	20050310	WO 2004-EP8174	20040722
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,				

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 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,  
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 SN, TD, TG

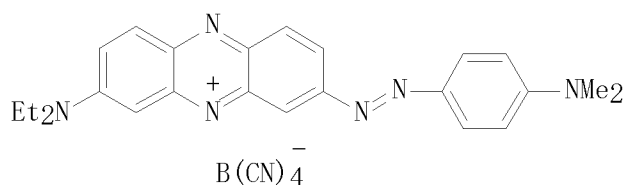
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DE 10357360	A1	20050707	DE 2003-10357360	20031209
EP 1660591	A1	20060531	EP 2004-763390	20040722

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
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JP 2007503477	T	20070222	JP 2006-523551	20040722
US 20080275224	A1	20081106	US 2006-568526	20060217

PRAI DE 2003-10338834 A 20030821  
 DE 2003-10338933 A 20030821  
 DE 2003-10357359 A 20031209  
 DE 2003-10357360 A 20031209  
 DE 2004-202004007611 A 20040217  
 DE 2004-202004007612 A 20040217  
 DE 2004-102004007610 A 20040217  
 DE 2004-102004007611 A 20040217  
 WO 2004-EP8174 W 20040722

OS MARPAT 142:299401  
 GI



I

AB The title dyes, which are electrochem., thermally, and hydrolytically stable and have good solubility, have cations and anions of specified structure. Adding 0.975 mol K[B(CN)<sub>4</sub>] in 5 mL H<sub>2</sub>O to 0.959 mmol Janus green in 100 mL H<sub>2</sub>O dropwise with stirring gave 72.4% Janus green tetracyanoborate (I).

IT 847507-05-5P 847507-06-6P 847507-07-7P  
 847507-08-8P 847507-09-9P 847507-10-2P  
 847507-11-3P 847507-12-4P 847507-13-5P  
 847507-14-6P 847507-15-7P 847507-16-8P  
 847507-17-9P 847507-18-0P 847507-19-1P  
 847507-20-4P 847507-21-5P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(cyanoborate, fluoroalkyl phosphate, fluoroalkyl borate or imide dyes)

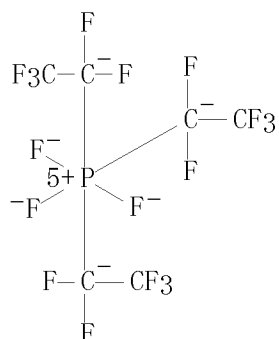
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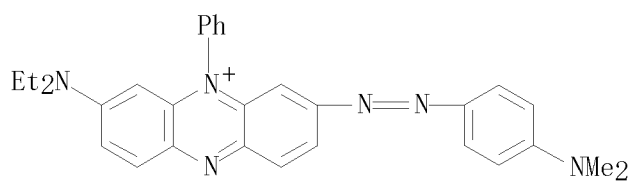
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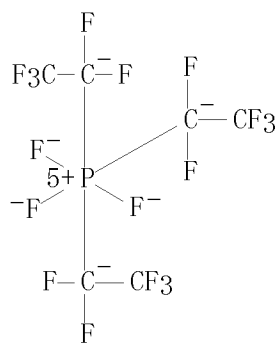
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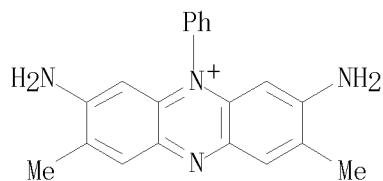
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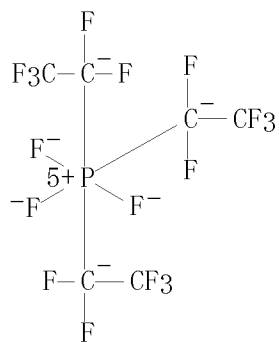
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RN 847507-07-7 CAPLUS  
CN Xanthylum, 9-(2-carboxyphenyl)-3,6-bis(diethylamino)-,  
trifluorotris(pentafluoroethyl)phosphate(1-) (9CI) (CA INDEX NAME)

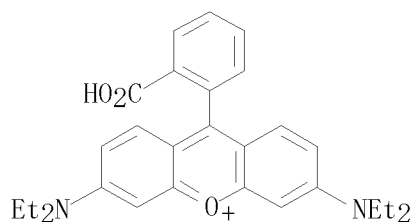
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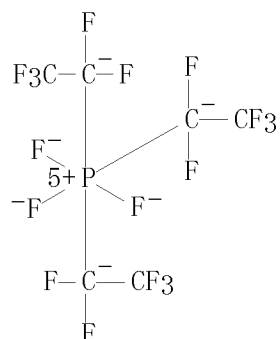
RN 847507-08-8 CAPLUS  
CN Xanthylum, 3,6-bis(dimethylamino)-,  
trifluorotris(pentafluoroethyl)phosphate(1-) (9CI) (CA INDEX NAME)

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CRN 429679-87-8

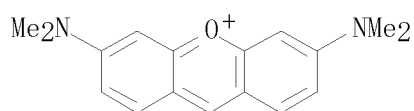


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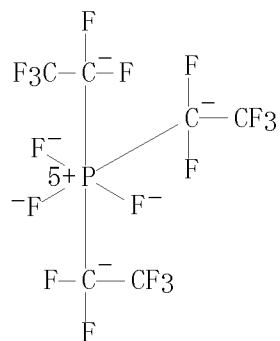
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trifluorotris(pentafluoroethyl)phosphate(1-) (9CI) (CA INDEX NAME)

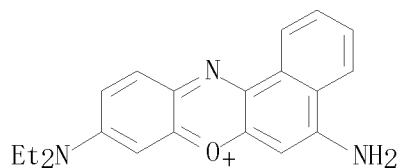
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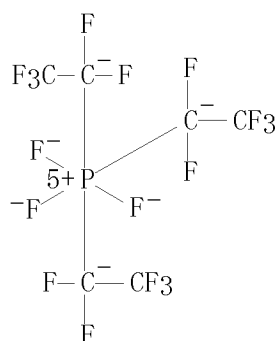
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 CN Methanaminium, N-[4-[bis[4-(dimethylamino)phenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, trifluorotris(pentafluoroethyl)phosphate(1-) (9CI) (CA INDEX NAME)

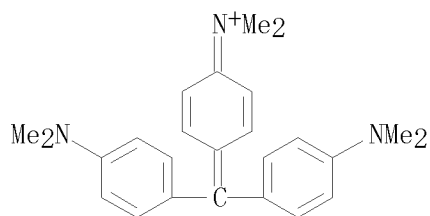
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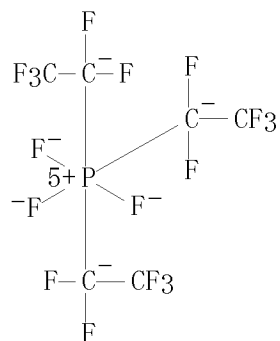
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RN 847507-11-3 CAPLUS  
 CN Phenanthridinium, 3,8-diamino-5-ethyl-6-phenyl-, trifluorotris(pentafluoroethyl)phosphate(1-) (9CI) (CA INDEX NAME)

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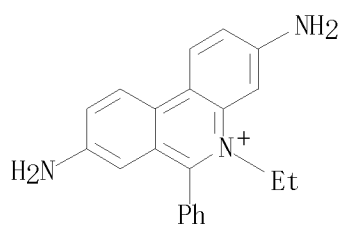
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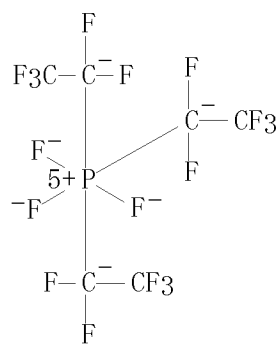
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CMF C6 F18 P

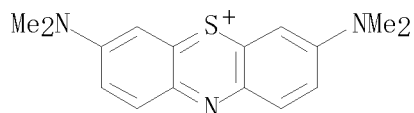
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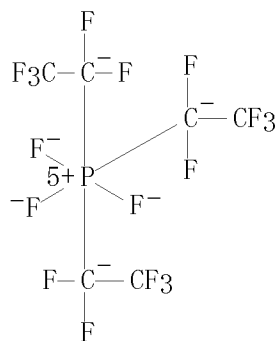
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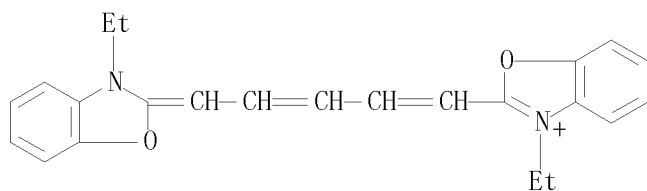
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RN 847507-14-6 CAPLUS

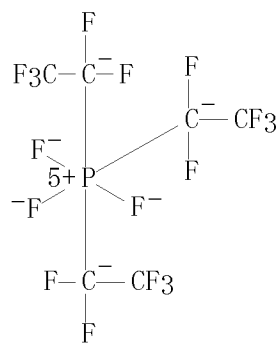
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 trifluorotris(pentafluoroethyl)phosphate(1-) (9CI) (CA INDEX NAME)

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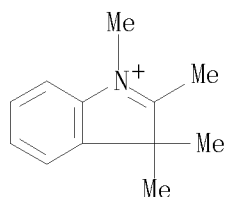
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RN 847507-15-7 CAPLUS

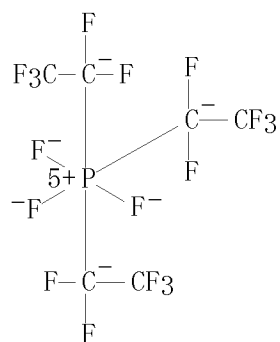
CN Benzothiazolium, 3-ethyl-2-methyl-,  
trifluorotris(pentafluoroethyl)phosphate(1-) (9CI) (CA INDEX NAME)

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CMF C6 F18 P

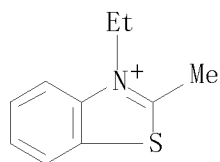
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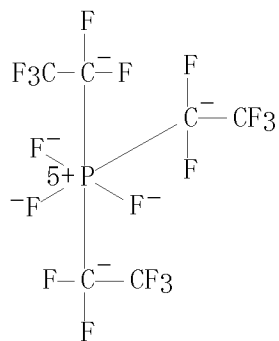
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RN 847507-16-8 CAPLUS  
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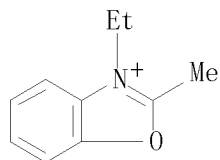
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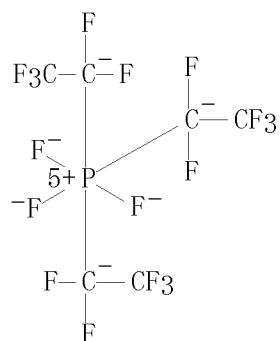
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RN 847507-17-9 CAPLUS  
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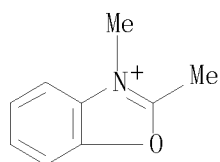
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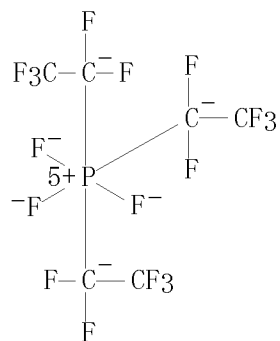
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RN 847507-18-0 CAPLUS  
CN 3H-Indolium, 2-[3-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-1-propenyl]-1,3,3-trimethyl-, trifluorotris(pentafluoroethyl)phosphate(1-)  
(9CI) (CA INDEX NAME)

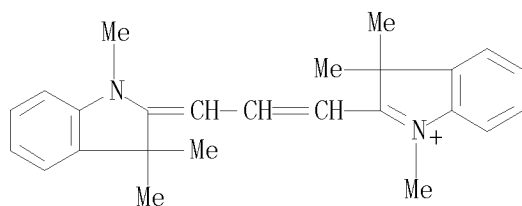
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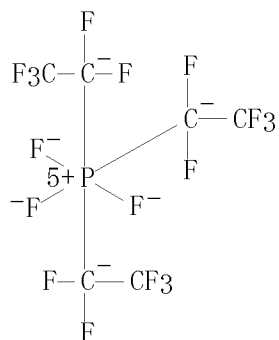
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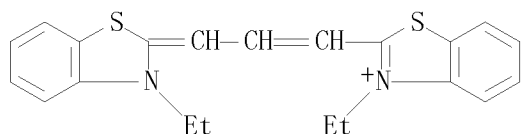
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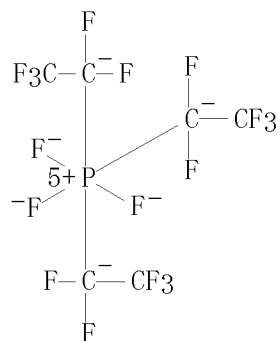


RN 847507-20-4 CAPLUS  
 CN Benzoxazolium, 3-methyl-2-[3-(3-methyl-2(3H)-benzoxazolyliidene)-1-propenyl]-, trifluorotris(pentafluoroethyl)phosphate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 429679-87-8  
 CMF C6 F18 P  
 CCI CCS

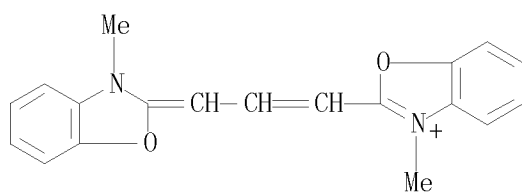




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CRN 48198-86-3

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RN 847507-21-5 CAPLUS

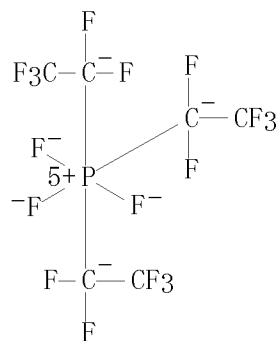
CN 3-Thiophenediazonium, 2-(methoxycarbonyl)-,  
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CM 1

CRN 429679-87-8

CMF C6 F18 P

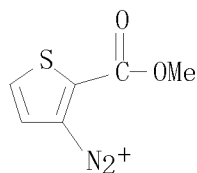
CCI CCS



CM 2

CRN 100421-49-6

CMF C6 H5 N2 O2 S



OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)  
 RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his full

(FILE 'HOME' ENTERED AT 14:51:05 ON 17 AUG 2009)

FILE 'REGISTRY' ENTERED AT 14:51:18 ON 17 AUG 2009

L1 STRUCTURE UPLOADED

D

L2 0 SEA SSS SAM L1

L3 1 SEA SSS FUL L1

D QUE L3 STAT

D IDE CAN

FILE 'CAPLUS' ENTERED AT 14:52:36 ON 17 AUG 2009

L4 1 SEA ABB=ON PLU=ON L3

D BIB ABS HITSTR

L5 6605 SEA ABB=ON PLU=ON FLUOROALKYLPHOSPHATE? OR FLUOROPHOSPHATE?

L6 16 SEA ABB=ON PLU=ON L5 AND ?CYANINE?

D 1-16 BIB ABS KWIC

L\*\*\* DEL 881 F HID

L7 2 SEA ABB=ON PLU=ON L5 AND POLYMETHINE

D 1-2 BIB ABS

E IGNATYEV NIKOLAI/AU

L8 51 SEA ABB=ON PLU=ON ("IGNATYEV N V"/AU OR "IGNATYEV NICOLAI"/AU  
 OR "IGNATYEV NIKOLAI"/AU OR "IGNATYEV NIKOLAI V"/AU)

E BIERMANN URS/AU

E WILLNER HEIGE/AU

L9 228 SEA ABB=ON PLU=ON "WILLNER HELGE"/AU

E FINZE MAIK/AU

L10 36 SEA ABB=ON PLU=ON ("FINZE M"/AU OR "FINZE MAIK"/AU)

E BERNHARDT EDUARD/AU

L11 50 SEA ABB=ON PLU=ON ("BERNHARDT E O"/AU OR "BERNHARDT E S"/AU  
 OR "BERNHARDT EDUARD"/AU)

E KUCHERYNA ADRRIY/AU

L12 23 SEA ABB=ON PLU=ON ("KUCHERYNA ANDRIY"/AU OR "KUCHERYNA  
 ANDRIY I"/AU OR "KUCHERYNA ANDRY"/AU)

L13 282 SEA ABB=ON PLU=ON L8 OR L9 OR L10 OR L11 OR L12

L14 3 SEA ABB=ON PLU=ON L13 AND (POLYMETHINE OR ?CYANINE?)

D QUE L14 STAT

D 1-3 BIB ABS

L15 6754 SEA ABB=ON PLU=ON L5 OR (FLUOROALKYL PHOSPHATE?)

L16 75 SEA ABB=ON PLU=ON L15 AND DYE?

FILE 'REGISTRY' ENTERED AT 15:10:38 ON 17 AUG 2009

L17 STRUCTURE UPLOADED

D

L18 31 SEA SSS SAM L17

L19 564 SEA SSS FUL L17  
FILE 'CAPLUS' ENTERED AT 15:11:35 ON 17 AUG 2009  
L20 407 SEA ABB=ON PLU=ON L19  
D QUE L20 STAT  
L21 1 SEA ABB=ON PLU=ON L20 AND (POLYMETHINE? OR ?CYANINE?)  
D BIB ABS HITSTR

FILE HOME

#### FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 16 AUG 2009 HIGHEST RN 1174375-84-8

DICTIONARY FILE UPDATES: 16 AUG 2009 HIGHEST RN 1174375-84-8

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<http://www.cas.org/support/stngen/stndoc/properties.html>

#### FILE CAPLUS

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FILE COVERS 1907 - 17 Aug 2009 VOL 151 ISS 8

FILE LAST UPDATED: 16 Aug 2009 (20090816/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2009.

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<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/CAPLUS family of databases have been updated to include new citing references

information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 9.

=> => d que 126 stat  
L17 STR



Structure attributes must be viewed using STN Express query preparation.

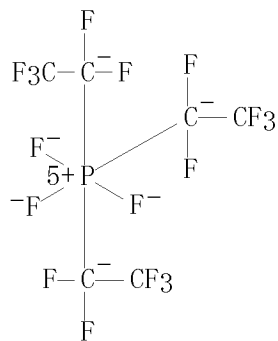
L19 564 SEA FILE=REGISTRY SSS FUL L17  
L26 4 SEA FILE=REGISTRY ABB=ON PLU=ON L19 AND (INDOLIUM OR  
BENZOOXAZOLIUM OR BENZOTHIAZOLIUM)

=> d 1-4 ide can

L26 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 847507-19-1 REGISTRY  
ED Entered STN: 29 Mar 2005  
CN Benzothiazolium, 3-ethyl-2-[3-(3-ethyl-2(3H)-benzothiazolylydene)-1-propenyl]-, trifluorotris(pentafluoroethyl)phosphate(1-) (9CI) (CA INDEX NAME)  
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LC STN Files: CA, CAPLUS, USPATFULL

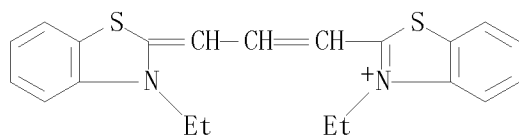
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CCI CCS



CM 2

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CMF C21 H21 N2 S2



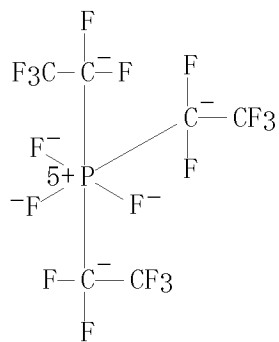
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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 142:299401

L26 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 847507-18-0 REGISTRY  
ED Entered STN: 29 Mar 2005  
CN 3H-Indolium, 2-[3-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-1-propenyl]-1,3,3-trimethyl-, trifluorotris(pentafluoroethyl)phosphate(1-)  
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SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

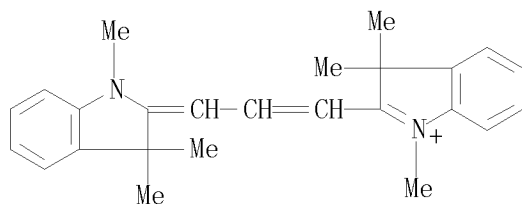
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CRN 429679-87-8  
CMF C6 F18 P  
CCI CCS



CM 2

CRN 20766-56-7  
CMF C25 H29 N2



1 REFERENCES IN FILE CA (1907 TO DATE)

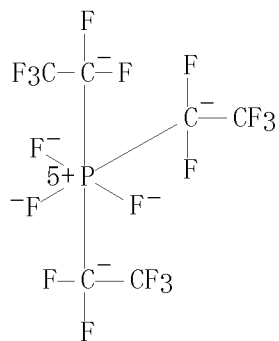
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REFERENCE 1: 142:299401

L26 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 847507-15-7 REGISTRY  
 ED Entered STN: 29 Mar 2005  
 CN Benzothiazolium, 3-ethyl-2-methyl-,  
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 LC STN Files: CA, CAPLUS, USPATFULL

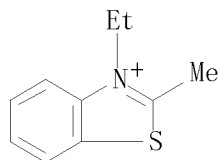
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CRN 429679-87-8  
 CMF C6 F18 P  
 CCI CCS



CM 2

CRN 42846-15-1  
 CMF C10 H12 N S



1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 142:299401

L26 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 847507-14-6 REGISTRY  
 ED Entered STN: 29 Mar 2005  
 CN 3H-Indolium, 1,2,3,3-tetramethyl-,  
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 MF C12 H16 N . C6 F18 P  
 SR CA

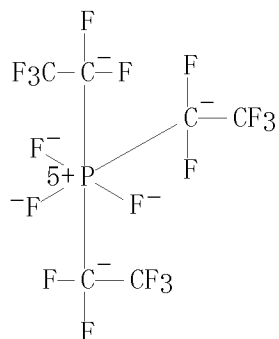
LC STN Files: CA, CAPLUS, USPATFULL

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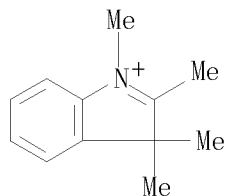
CCI CCS



CM 2

CRN 46149-03-5

CMF C12 H16 N



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 142:299401

=> s 119 and benzoxazolium

9807 BENZOXAZOLIUM

L27 4 L19 AND BENZOXAZOLIUM

=> d 1-4 ide can

L27 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2009 ACS on STN

RN 847507-20-4 REGISTRY

ED Entered STN: 29 Mar 2005

CN Benzoxazolium, 3-methyl-2-[3-(3-methyl-2(3H)-benzoxazolyliidene)-1-propenyl]-, trifluorotris(pentafluoroethyl)phosphate(1-) (9CI) (CA INDEX NAME)

MF C19 H17 N2 O2 . C6 F18 P

SR CA

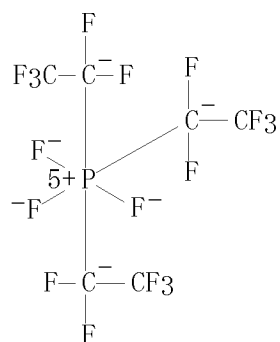
LC STN Files: CA, CAPLUS, USPATFULL

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CRN 429679-87-8

CMF C6 F18 P

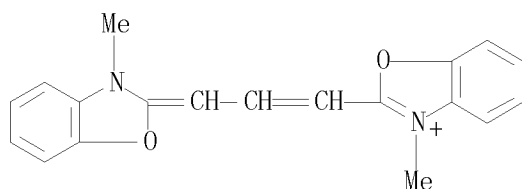
CCI CCS



CM 2

CRN 48198-86-3

CMF C19 H17 N2 O2



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 142:299401

L27 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2009 ACS on STN

RN 847507-17-9 REGISTRY

ED Entered STN: 29 Mar 2005

CN Benzoxazolium, 2,3-dimethyl-,  
trifluorotris(pentafluoroethyl)phosphate(1-) (9CI) (CA INDEX NAME)

MF C9 H10 N O . C6 F18 P

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

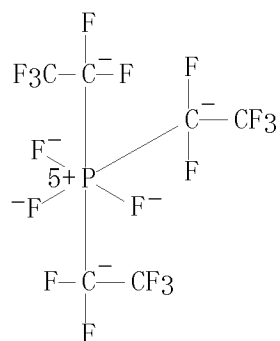
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CMF C6 F18 P

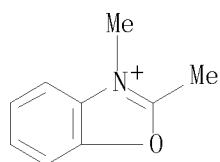
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CM 2

CRN 40265-56-3  
CMF C9 H10 N 0



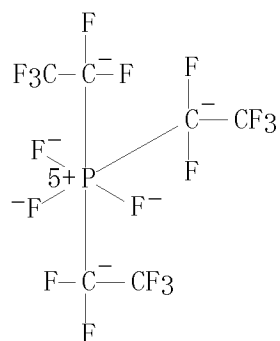
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 142:299401

L27 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 847507-16-8 REGISTRY  
ED Entered STN: 29 Mar 2005  
CN Benzoxazolium, 3-ethyl-2-methyl-,  
trifluorotris(pentafluoroethyl)phosphate(1-) (9CI) (CA INDEX NAME)  
MF C10 H12 N 0 . C6 F18 P  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

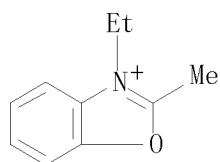
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CM 2

CRN 42846-14-0

CMF C10 H12 N 0



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 142:299401

L27 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2009 ACS on STN

RN 847507-13-5 REGISTRY

ED Entered STN: 29 Mar 2005

CN Benzoxazolium, 3-ethyl-2-[5-(3-ethyl-2(3H)-benzoxazolyli-  
dene)-1,3-pentadienyl]-, trifluorotris(pentafluoroethyl)phosphate(1-) (9CI)  
(CA INDEX NAME)

MF C23 H23 N2 O2 . C6 F18 P

SR CA

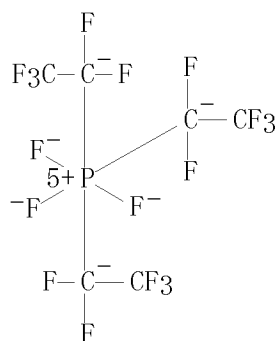
LC STN Files: CA, CAPLUS, USPATFULL

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CRN 429679-87-8

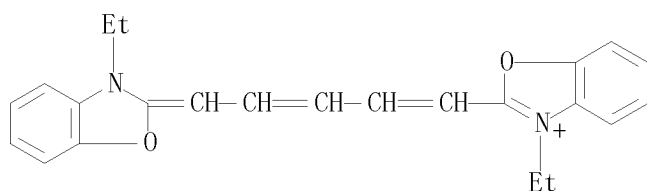
CMF C6 F18 P

CCI CCS



CM 2

CRN 37069-76-4  
CMF C23 H23 N2 O2



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 142:299401

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(FILE 'HOME' ENTERED AT 14:51:05 ON 17 AUG 2009)

FILE 'REGISTRY' ENTERED AT 14:51:18 ON 17 AUG 2009

L1 STRUCTURE UPLOADED  
D

L2 0 SEA SSS SAM L1  
L3 1 SEA SSS FUL L1  
D QUE L3 STAT  
D IDE CAN

FILE 'CAPLUS' ENTERED AT 14:52:36 ON 17 AUG 2009

L4 1 SEA ABB=ON PLU=ON L3  
D BIB ABS HITSTR

L5 6605 SEA ABB=ON PLU=ON FLUOROALKYLPHOSPHATE? OR FLUOROPHOSPHATE?  
L6 16 SEA ABB=ON PLU=ON L5 AND ?CYANINE?  
D 1-16 BIB ABS KWIC

L\*\*\* DEL 881 F HID

L7 2 SEA ABB=ON PLU=ON L5 AND POLYMETHINE  
D 1-2 BIB ABS  
E IGNATYEV NIKOLAI/AU

L8 51 SEA ABB=ON PLU=ON ("IGNATYEV N V"/AU OR "IGNATYEV NICOLAI"/AU  
OR "IGNATYEV NIKOLAI"/AU OR "IGNATYEV NIKOLAI V"/AU)  
E BIERMANN URS/AU

L9 228 SEA ABB=ON PLU=ON "WILLNER HELGE"/AU  
E FINZE MAIK/AU  
L10 36 SEA ABB=ON PLU=ON ("FINZE M"/AU OR "FINZE MAIK"/AU)  
E BERNHARDT EDUARD/AU  
L11 50 SEA ABB=ON PLU=ON ("BERNHARDT E O"/AU OR "BERNHARDT E S"/AU  
OR "BERNHARDT EDUARD"/AU)  
E KUCHERYNA ADRRIY/AU  
L12 23 SEA ABB=ON PLU=ON ("KUCHERYNA ANDRIY"/AU OR "KUCHERYNA  
ANDRIY I"/AU OR "KUCHERYNA ANDRY"/AU)  
L13 282 SEA ABB=ON PLU=ON L8 OR L9 OR L10 OR L11 OR L12  
L14 3 SEA ABB=ON PLU=ON L13 AND (POLYMETHINE OR ?CYANINE?)  
D QUE L14 STAT  
D 1-3 BIB ABS  
L15 6754 SEA ABB=ON PLU=ON L5 OR (FLUOROALKYL PHOSPHATE?)  
L16 75 SEA ABB=ON PLU=ON L15 AND DYE?

FILE 'REGISTRY' ENTERED AT 15:10:38 ON 17 AUG 2009

L17 STRUCTURE UPLOADED  
D

L18 31 SEA SSS SAM L17

L19 564 SEA SSS FUL L17

FILE 'CAPLUS' ENTERED AT 15:11:35 ON 17 AUG 2009

L20 407 SEA ABB=ON PLU=ON L19

D QUE L20 STAT

L21 1 SEA ABB=ON PLU=ON L20 AND (POLYMETHINE? OR ?CYANINE?)

D BIB ABS HITSTR

L22 0 SEA ABB=ON PLU=ON L19 AND (INDOLIUM OR BENZOOXAZOLIUM OR  
BENZOTHIAZOLIUM)  
S L19 AND (INDOLIUM OR BENZOOXAZOLIUM OR BENZOTHIAZOLIUM)/CN

FILE 'REGISTRY' ENTERED AT 15:16:31 ON 17 AUG 2009

L23 1 SEA ABB=ON PLU=ON (INDOLIUM OR BENZOOXAZOLIUM OR BENZOTHIAZOL  
IUM)/CN

FILE 'CAPLUS' ENTERED AT 15:16:37 ON 17 AUG 2009

L24 3 SEA ABB=ON PLU=ON L23

L25 0 SEA ABB=ON PLU=ON L19 AND L24

FILE 'REGISTRY' ENTERED AT 15:16:55 ON 17 AUG 2009

L26 4 SEA ABB=ON PLU=ON L19 AND (INDOLIUM OR BENZOOXAZOLIUM OR  
BENZOTHIAZOLIUM)

D QUE L26 STAT

D 1-4 IDE CAN

L27 4 SEA ABB=ON PLU=ON L19 AND BENZOAZOLIUM

D 1-4 IDE CAN

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file  
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STRUCTURE FILE UPDATES: 16 AUG 2009 HIGHEST RN 1174375-84-8

DICTIONARY FILE UPDATES: 16 AUG 2009 HIGHEST RN 1174375-84-8

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Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

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FILE COVERS 1907 - 17 Aug 2009 VOL 151 ISS 8  
FILE LAST UPDATED: 16 Aug 2009 (20090816/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/Caplus family of databases have been updated to include new citing references information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 9.

=> log h

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	41.96	595.96
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-18.86

SESSION WILL BE HELD FOR 120 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 15:19:33 ON 17 AUG 2009